

c. adding sodium acetylide in excess of [stoichiometry]  
said sub-stoichiometric amounts of alkali metal.

Amend claim 3:

3. (Amended) A process for synthesizing photocurable  
poly(ethynyl) carbosilane comprising the steps of:

- a. mixing dichlorosilane and trichlorosilane reagents in  
the presence of methylene bromide;
- b. adding sub-stoichiometric amounts of sodium metal; and
- c. adding sodium acetylide in excess of [stoichiometry]  
said sub-stoichiometric amounts of alkali metal.

### LISTING OF CLAIMS

1. (Twice Amended) A process for synthesizing photo-curable poly(ethynyl)carbosilane comprising the steps of:
  - a. mixing dichlorosilane and trichlorosilane reagents;
  - b. adding sub-stoichiometric amounts of alkali metal; and
  - c. adding sodium acetylide in excess of said sub-stoichiometric amounts of alkali metal.
2. (Twice Amended) A process for synthesizing photo-curable poly(ethynyl)carbosilane comprising the steps of:
  - a. mixing dichlorosilane and trichlorosilane reagents in the presence of methylene bromide;
  - b. adding sub-stoichiometric amounts of alkali metal; and
  - c. adding sodium acetylide in excess of said sub-stoichiometric amounts of alkali metal.
3. (Twice Amended) A process for synthesizing photocurable poly(ethynyl) carbosilane comprising the steps of:
  - a. mixing dichlorosilane and trichlorosilane reagents in the presence of methylene bromide;
  - b. adding sub-stoichiometric amounts of sodium metal; and
  - c. adding sodium acetylide in excess of said sub-stoichiometric amounts of alkali metal.